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2	Ap	plication No.	Applicant(s)	
Office Assistant Co)/518,117	HSU ET AL.	
Office Action Sum	mary Ex	aminer	Art Unit	
		gussie Worku	2624	TOTAL TANKS
The MAILING DATE of this Period for Reply	s communication appears	on the cover sheet with	the correspondence ad	dress
A SHORTENED STATUTORY F THE MAILING DATE OF THIS C - Extensions of time may be available under after SIX (6) MONTHS from the mailing dat - If the period for reply specified above is less - If NO period for reply is specified above, the - Failure to reply within the set or extended p - Any reply received by the Office later than the earned patent term adjustment. See 37 CF	COMMUNICATION. the provisions of 37 CFR 1.136(a). e of this communication. s than thirty (30) days, a reply within e maximum statutory period will apperiod for reply will, by statute, caus hree months after the mailing date	In no event, however, may a reply the statutory minimum of thirty (3 bly and will expire SIX (6) MONTHS et he application to become ABAN	be timely filed 0) days will be considered timely from the mailing date of this conducted to the conducted timely from the mailing date of this conducted to the conducted timely from the mailing date of this conducted timely from the mailing date of this conducted timely from the mailing date of the conducted timely from the mailing date of the conducted timely filed.	<i>ı.</i> ommunication.
1) Responsive to communic	ation(s) filed on <u>03 Marc</u>	<u>h 2000</u> .		
2a) ☐ This action is FINAL .	2b)⊠ This ac	ction is non-final.		
3) Since this application is ir closed in accordance with	n condition for allowance n the practice under <i>Ex p</i>	except for formal matter arte Quayle, 1935 C.D.	rs, prosecution as to the 11, 453 O.G. 213.	e merits is
Disposition of Claims				
4)⊠ Claim(s) <u>1-5</u> is/are pendin	• .,			
4a) Of the above claim(s) _		om consideration.		
5) Claim(s) is/are allow				
6)⊠ Claim(s) <u>1-5</u> is/are rejected				
7) Claim(s) is/are obje				
8) Claim(s) are subjec Application Papers	t to restriction and/or ele	ction requirement.		
9)☐ The specification is objecte	d to by the Examiner.			
10)☐ The drawing(s) filed on	is/are: a)□ accepted o	or b) objected to by the	Examiner.	
Applicant may not request t	hat any objection to the dra	wing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
11)☐ The proposed drawing corre	ection filed on is:	a)∏ approved b)∏ disa	pproved by the Examine	er.
If approved, corrected draw	ngs are required in reply to	this Office action.		
12) The oath or declaration is o	bjected to by the Examir	ner.		
Priority under 35 U.S.C. §§ 119 and	d 120			
13) Acknowledgment is made	of a claim for foreign pric	ority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)□ All b)□ Some * c)□ l	None of:			
 Certified copies of the 	ne priority documents have	ve been received.		
2. Certified copies of the	ne priority documents hav	ve been received in App	ication No	
	ed copies of the priority d the International Bureau ffice action for a list of th	(PCT Rule 17.2(a)).		Stage
14) Acknowledgment is made of				application).
a) ☐ The translation of the f 15)☐ Acknowledgment is made o				GRANT II
Attachment(s)	inf			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawin Information Disclosure Statement(s) (P			nmary (PTO-413) Paper No(rmal Patent Application (PTC	
Patent and Trademark Office O-326 (Rev. 04-01)	Office Action	Summary	Part of	Paper No. 3

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DETAILED ACTION

Objection to the Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, in claim 1, "Increasing scanning resolution of a scanner through controlling the driving system, a CCD, and step motor" is not supported by the drawing, and must be shown or the feature(s) canceled from the claim(s).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5, are rejected under 35 U.S.C. 102(b) as being anticipated by Koshiyouji et al. (USP 5,150,227).

With respect to claim 1, Koshiyouji discloses a method of increasing scanning resolution of a scanner, see (col.4, line 47-51) through controlling its driving system, (controller 15 of fig 1, controlling its driving system step-motor 13 of fig 1, see col.4, lines 15-16) comprising the step of: providing shift gate clock pulses, (step-motor shift pulse from step-motor provide pulse to shift CCD line sensor, see col.4, lines 64-65), to

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a CCD such that one shift gate clock pulse period corresponding to an exposure cycle for the CCD, (21 of fig 2), see (col.6, lines 64-68); and providing motor pulses to a motor, see col.5, lines 50-54), such that one motor pulse period (number of pulse supplied to the motor 13 of fig 3) corresponds to a plurality of exposure cycles (light from illuminating device 19 of fig 1) for the charge-coupled-device (CCD 21 of fig 3).

With respect to claim 2, Koshiyouji et al. discloses a method (as shown in fig 3) wherein the motor includes a stepper motor, (13 of fig 1, is a step-motor), see (col.4, lines 7-8).

With respect to claim 3, Koshiyouji discloses a method (as shown in fig 1 and 2) of increasing scanning resolution of a scanner see (col.4, line 47-51), through controlling its driving system, (controller 15 of fig 1, controlling its driving system stepmotor 13 of fig 1, see col.4, lines 15-16), comprising: the step of providing motor pulse signals to a CCD device, (shift pulse provided from step-motor provide to shift CCD line sensor, see col.4, lines 64-65); and adjusting (CPU 27 of fig 3, adjust the timing, col.9, lines 5-12), a timing relationship, see (col.9, lines 30-35) between the motor pulse (motor pulse signals 501 and 504 of fig 5), and the shift gate clock pulse (clock pulse fCL of fig 3, generate by clock generate 26 of fig 3), such that one motor pulse cycle corresponds to a plurality of shift gate clock pulse cycles, see (col.9, lines 5-15).

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With respect to claim 4, Koshiyouji discloses wherein one shift gate clock cycle

corresponds to an exposure cycle (light from illuminating device 19 of fig 1) for the

CCD, see (col.6, lines 64-65).

With respect to claim 5, Koshiyouji et al. discloses a method (as shown in fig 3)

wherein the motor includes a stepper motor, (13 of fig 1, is a step-motor), see (col.4,

lines 7-8).

3. Any inquiry concerning this communication or earlier communication from

Examiner should be directed to Negussie Worku whose telephone number is

(703) 305 5441.

The Examiner can normally be reached on M-F, 9 am - 6 pm if attempts to reach

the Examiner by telephone are unsuccessful, the Examiner's Supervisor, David Moore,

can be reached on (703) 308-7452.

The fax phone number for the organization where this application or proceeding

is assigned is (703) 306-5406, and any inquiry of general nature or relating to the status

of this application or proceeding should be directed to the receptionist whose telephone

number is (703) 305-3900.

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